

What is claimed is :

1. A channel switching apparatus of a digital television, comprising :
a signal processing unit for receiving a broadcast signal, performing a
5 digital signal processing and outputting it ;

a CPU for searching a pertinent icon by accessing a storing unit storing a
channel icon corresponding to a channel of the digital broadcast signal outputted
from the signal processing unit ;

10 an icon display unit for displaying the channel icon searched from the CPU
on a screen ; and

the storing unit for storing each designated channel icon corresponding to
each received broadcast channel.

15 2. The channel switching apparatus of the digital television according
to claim 1, wherein the signal processing unit comprises a digital signal processor
unit for processing a received broadcast signal into a digital signal and outputting it,
and an analog signal processor unit for performing analog-signal-processing of a
received broadcast signal.

20 3. The channel switching apparatus of the digital television according
to claim 1, wherein the storing unit comprises a main memory unit for storing
program data and channel icon set so as to represent a received broadcast signal
as a lookup table format, and an auxiliary storage unit for storing data for operating
a program.

25

4. The channel switching apparatus of the digital television according to claim 3, wherein the main memory unit sets a diagram representing each broadcast station or a certain diagram in accordance with a received broadcast signal by a user as a channel icon, and stores it as a lookup table format.

5. A channel switching method of a digital television, comprising :
inputting a up/down key of a channel ;
searching a channel selected by the up/down key of the channel
searching a channel icon corresponding to the searched channel ; and
10 displaying the channel icon corresponding to the searched channel on a screen for the receiving the broadcast signal.

6. The channel switching method of the digital television according to claim 5, wherein the channel switching method further comprises :
15 judging whether the up/down key of the other channel is inputted ; and
performing repeatedly from the channel icon searching process when the up/down key of the other channel is inputted.

7. The channel switching method of the digital television according to claim 6, wherein the channel switching method further comprises :
20 judging whether processing of the video signal of the pertinent channel is finished when the up/down key of the other channel is not inputted ; and
displaying the video signal corresponding to the channel when the processing of the video signal is finished or performing repeatedly from the
25 channel icon displaying process when the processing of the video signal is not

finished.

5

10

15

20

25